

Amendments to the Drawings:

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FIG 1 & FIG 2, that were deemed to be inadequate in the original submission, have been amended to the following set of drawings and will replace all prior versions in the application

Brief Description of the Several Views of the Drawing

Note: Use the block diagram of FIG. 2 to reference the sub assemblies, their drawings and FIG. Numbers.

FIG. 1 is a diagram of the embodiment of a typical system as used on the prototype and preproduction version. A 5 foot deep, below ground tank was used for this purpose and for making drawings FIG. 3 – FIG.5.

FIG. 2 is a block diagram showing the complete system and its components referencing the appropriate assemblies and their drawings.

FIG. 3 shows the mechanical detail of the integrated assembly. Inner probe, outer sheath, electronics box and interconnecting cables.

FIG. 4 shows the mechanical details of the outer sheath

FIG. 5 shows the mechanical details of the inner probe.

FIG. 6 shows how the design would be changed for the embodiment of a 4-foot deep system.

FIG.7 is a complete electronic schematic of the electronics box.

FIG 8 shows the detail of the plate connection and associated parts.

FIG 9 shows the detail of the probe connector assembly 007.

FIG. 10 shows the detail of interconnecting cable assembly 003

FIG. 11 shows the mechanical assembly of the display electronics box.

FIG 12 shows the detail of display electronics box interconnecting cable assembly 004

FIG. 13 shows connection detail of Optional Data Output J1..

FIG. 14 shows the display electronics box front panel



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FIG 15 shows the drilling data of the front panel.

FIG. 16 shows a photograph of the Electronics Display Box pre production version.

FIG. 17 shows a photograph of the probe assembly (5 foot version).

Table 1: A complete parts list of the components illustrated in FIG 7, & 14 is given in Table 1.

TABLE 2: A complete parts list of the components illustrated in FIG 1 - 5 is given in Table 2

TABLE 3: Sample measurements were carried out on common materials to test their compatibility. The results are shown in Table 3.

TABLE 4: Table 4 was included for comparison of some published figures of EC (electrical conductivity) and their respective TDS (Total Dissolved salts) for naturally occurring water.